



# **Geotechnical, Engineering and Sciences, Engineering Division**

The Geotechnical Engineering and Sciences Branch of Omaha District's Engineering Division provides engineering consulting services for Civil Works, environmental remediation, and military construction projects as well as support for other agencies.

## **Mission**

The mission of the Geotechnical Engineering and Sciences Branch is to meet the engineering requirements of the Omaha District and the customers it serves, using sound engineering judgment and incorporating state-of-the-art technologies in a timely and cost-effective manner.

## **Capabilities**

### **Traditional Geotechnical Engineering, Geology and Surveys and Mapping**

- o Subsurface investigations
- o Groundwater studies
- o Foundation analyses
- o Earth dam and levee design and rehabilitation
- o Topographic mapping
- o Utility and boundary surveying
- o Tunnel design

### **Specialty and Nontraditional In-house Services:**

- o Landfill cover, liner system, and barrier-wall design
- o Contaminated material stabilization/solidification/bioremediation
- o Remedial investigation/feasibility studies
- o Geophysical surveys
- o Groundwater remediation design
- o Direct push sampling
- o Drilling by auger, rotary, or coring methods
- o Water supply well design, evaluation, and Operation and Maintenance
- o Groundwater monitoring
- o Airfield/special-use pavement design
- o Engineering materials design and evaluation
- o Field surveying with field-to-finish equipment and global positioning system (GPS) technology
- o Dam safety inspections/evaluations and monitoring program design
- o Bridge inspections
- o Down-hole camera inspections
- o Geographic information system (GIS) applications and modeling
- o Environmental data quality and regulatory compliance
- o Industrial hygiene/worker health and safety
- o Human health and ecological risk assessment
- o Technical support for Military Munitions Response Program Design Center

### **Support Services**

In-house drill crews, survey/quality assurance (QA) personnel, and field professionals have all received OSHA safety and health training (including Hazardous Waste Operations and Emergency Response Standard). QA/Quality Control (QC) field service is available. Traditional and specialized soils and materials testing and environmental chemistry are available locally with in-house QA/QC.



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